

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claim 1 and 2 and ADD claim 5 in accordance with the following:

1. (Currently Amended) An inverter unit grounding method comprising:
connecting a 0V of a circuit system, including a sensor circuit for a sensor in an inverter unit ~~for driving a motor,~~ with a shield braid of a shielded cable connecting the sensor circuit and the sensor; and
connecting the shield braid of the shielded cable to an earth plate outside the inverter unit.

2. (Currently Amended) An inverter unit ~~for driving a motor,~~ comprising:
a sensor ~~for detecting the~~ a state of ~~the~~ a motor or a machine using the inverter unit; and
a circuit system including a sensor circuit for the sensor, wherein
the sensor circuit is connected with the sensor by ~~means of~~ a shielded cable having a shield braid, and the shield braid is connected to a 0V of the circuit system and an earth plate outside the inverter unit.

3. (Original) The inverter unit according to claim 2, wherein the sensor detects the position or speed of the motor, the magnetic pole position of a rotor of the motor, the temperature of the motor, or the acceleration of the motor, and the sensor circuit processes signals from the sensor.

4. (Original) A machine using the inverter unit according to claim 3.

5. (New) A machine using the inverter unit according to claim 2.

6. (New) An apparatus comprising:

means for connecting a 0V of a circuit system, including a sensor circuit for a sensor in an inverter unit driving a motor, with a shield braid of a shielded cable connecting the sensor circuit and the sensor; and

Serial No. 10/765,879

means for connecting the shield braid of the shielded cable to an earth plate outside the inverter unit.